

Applied Talent Owner: Michael Caskey, Roger Cate, Malcolm Law, Andrew Butler, Stephen Robert Bloom, Caroline Ann Smith, Rachel Louise Johnson, and Muhammad Ali Shadi

#### LEVEL 4. MODIFICATION OF FEEDING BEHAVIOR

stated that it is

2. ☐ an exchange of less than the entire right, title and interest.  
The subject (by percentage) of his ownership interest is \_\_\_\_\_ %

in the patent application/patent claiming allowed by virtue of either

- A [ ] An assignment from the inventor(s) of the patent application(s) identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, as far as a copy thereof is obtainable.

OK

5. ☐ A chain of title from the inventor(s), or the patent applicant or patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at  
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Real \_\_\_\_\_, Frame \_\_\_\_\_ or for which a copy thereof is attached.

- ☐ Additional documents in the chain of title uploaded on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08.

The undersigned (whose title is supplied below) is authorized to act on behalf of the signatory.

## Elaborando

Arundee S. Fredman

Printed &amp; Typed Names

**Director, Technology & Research Collaborations**

6-30-05

Date \_\_\_\_\_

(S03) 494-8200

**Telephone Number**

[illegible]

If you need assistance in completing the form, call 1-800-PTC-STAR and select option 2.

**Oregon Health and Science University**

Best Available Copy

## ASSIGNMENT

We, Michael Cowley of 6724 S. E. 19<sup>th</sup> Avenue, Portland, Oregon 97202, Roger Cone of 16563 S. Hattan Road, Oregon City, Oregon 97045, Malcolm Low of 4650 S. W. Upper Drive, Lake Oswego, Oregon 97035, Andrew Butler of 9010 Worth Avenue, Baton Rouge, LA70810, USA (formerly of 3730 S.W. 12<sup>th</sup> Avenue, Apartment 10, Portland, Oregon 97201), Stephen Robert Bloom of 49 Hollycroft Avenue, Hampstead, London NW3 7QS, United Kingdom, Caroline Jane Small of 46 Cumberland Road, London W3 6EY, United Kingdom, Rachel Louise Batterham of Flat 15 Great Sutton Street, London, EC1V 0BY, United Kingdom, and Mohammad Ali Ghatci of 17 Warrender Way, Ruislip, Middlesex, HA4 8EB, United Kingdom, in consideration of ten dollars and other valuable consideration paid to us by each of Imperial College Innovations Ltd., a corporation of the United Kingdom having its principal place of business at Sherfield Building, Imperial College, London SW7 2AZ, United Kingdom, and Oregon Health and Science University, a corporation of the State of Oregon, having its principal place of business at 3181 S.W. Sam Jackson Park Road, L335, Portland, Oregon 97201 (hereinafter "said Assignees"), the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Assignees, their successors and assigns, a joint, undivided interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in a certain invention or improvement in "*Modification of Feeding Behavior Using PYY and GLP-1*" described in U.S. Serial No. 10/501,411 filed in the United States Patent and Trademark Office on July 12, 2004, by Michael Cowley, Roger Cone, Malcolm Low, Andrew Butler, Stephen Robert Bloom, Caroline Jane Small, Rachel Louise Batterham, and Mohammad Ali Ghatci, which is a filing under 35 U.S.C. § 371 of PCT Application No. PCT/GB03/00062 filed under the Patent Cooperation Treaty on January 10, 2003, and in the provisional application to which priority is claimed, being U.S. Provisional Application Serial No. 60/392,109 filed in the United States Patent and Trademark Office on June 28, 2002, and in the PCT application to which priority is claimed, being PCT Application Serial No. PCT/US02/31944 filed in the U.S. Receiving Office for the Patent Cooperation Treaty on September 24, 2002, and in the United Kingdom application to which priority is claimed, being United Kingdom Application No. GB 0200507.2 filed in the United Kingdom on January 10, 2002, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any provisional, divisional, continuation, continuation-in-part,

Title: "Modification of Feeding Behavior Using PYY and GLP-1"

By: Michael Cowley, Roger Cone, Malcolm Low, Andrew Butler, Stephen Robert Bloom, Caroline Jane Small, Rachel Louise Batterham, and Mohammad Ali Ghatei

Filed: July 12, 2004

ASSIGNMENT

reissue, or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said Assignees and their successors and assigns, but at their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said Assignees, with specifications and claims in such form as shall be approved by the counsel of said Assignees, and to vest and confirm in said Assignees, their successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said Assignees, their successors and assigns.

WITNESS my hand and seal this 25<sup>TH</sup> day of May, 2005.

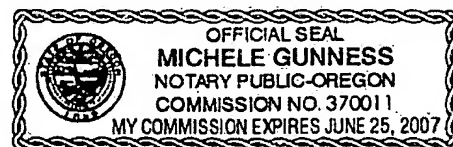
  
Michael Cowley

State of Oregon  
County of Multnomah

Then personally appeared the above named Michael Cowley and acknowledged the foregoing instrument to be his free act and deed, before me this 25<sup>TH</sup> day of May, 2005.

  
Notary Public

My Commission expires: June 25, 2007



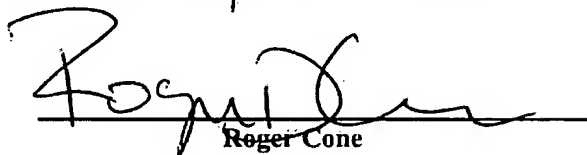
Title: "Modification of Feeding Behavior Using PYY and GLP-1"

By: Michael Cowley, Roger Cone, Malcolm Low, Andrew Butler, Stephen Robert Bloom, Caroline Jane Small, Rachel Louise Batterham, and Mohammad Ali Ghatel

Filed: July 12, 2004

ASSIGNMENT

WITNESS my hand and seal this 17<sup>th</sup> day of May, 2005.

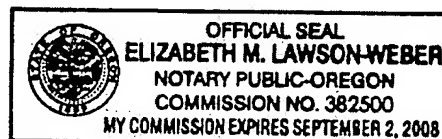
  
Roger Cone

Date of Oregon  
County of Multnomah

Then personally appeared the above named Roger Cone and acknowledged the foregoing instrument to be his free act and deed, before me this 17<sup>th</sup> day of May, 2005.

  
Notary Public

My Commission expires: Sept. 2, 2008



Title: "Modification of Feeding Behavior Using PYY and GLP-1"

By: Michael Cowley, Roger Cone, Malcolm Low, Andrew Butler, Stephen Robert Bloom, Caroline Jane Small, Rachel Louise Batterham, and Mohammad Ali Ghatel

Filed: July 12, 2004

ASSIGNMENT

WITNESS my hand and seal this 17 day of May, 2005.

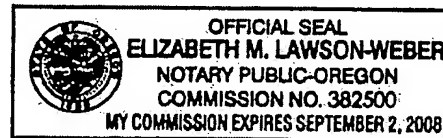
Malcolm Low  
Malcolm Low

State of Oregon  
County of Multnomah

Then personally appeared the above named Malcolm Low and acknowledged the foregoing instrument to be his free act and deed, before me this 17<sup>th</sup> day of May, 2005.

Elizabeth M. Lawson-Weber  
Notary Public

My Commission expires: September 2, 2008



Title: "Modification of Feeding Behavior Using PYY and GLP-1"

By: Michael Cowley, Roger Cone, Malcolm Low, Andrew Butler, Stephen Robert Bloom, Caroline Jane Small, Rachel Louise Batterham, and Mohammad Ali Ghatei

Filed: July 12, 2004


ASSIGNMENT

WITNESS my hand and seal this 16<sup>th</sup> day of May, 2005.

  
\_\_\_\_\_  
Andrew Butler

State of Louisiana  
Parish East Baton Rouge  
County of East Baton Rouge

Then personally appeared the above named Andrew Butler and acknowledged the foregoing instrument to be his free act and deed, before me this 16<sup>th</sup> day of May, 2005.

  
\_\_\_\_\_  
Notary Public

My Commission expires: at Death

Guy J. LaVerigne ID#9704

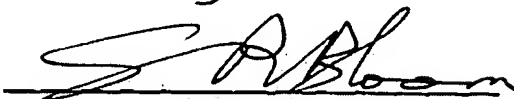
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By: Michael Cowley, Roger Cone, Malcolm Low, Andrew Butler, Stephen Robert Bloom, Caroline Jane Small, Rachel Louise Batterham, and Mohammad Ali Ghatei

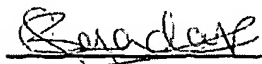

Filed: July 12, 2004

ASSIGNMENT

WITNESS my hand and seal this 27<sup>th</sup> day of May, 2005.

  
Stephen Robert Bloom

Witnesses:

1. Signed:   
Printed Name: SARA YADAV  
Address: 65 WESTBOURNE TERRACE, LONDON  
W2 3UY
2. Signed:   
Printed Name: R. L. Chordas - Mrs.  
Address: 1, Rachel Rd  
Cigston let 131

Title: "Modification of Feeding Behavior Using PYY and GLP-1"  
By: Michael Cowley, Roger Cone, Malcolm Low, Andrew Butler, Stephen Robert Bloom, Caroline Jane Small, Rachel Louise  
Batterham, and Mohammad Ali Ghatel  
Filed: July 12, 2004  
ASSIGNMENT

WITNESS my hand and seal this 27 day of May, 2005.

Caroline Jane Small  
Caroline Jane Small

Witnesses:

1. Signed: Synda  
Printed Name: SARA YADAV  
Address: 65 WESTBOURNE TERRACE, LONDON,  
W12 3UY
2. Signed: Chrystalla  
Printed Name: CHRISTALLA ORPHANIDES  
Address: DEPT OF METABOLIC MEDICINE, HAMMERSMITH CAMPUS  
IMPERIAL COLLEGE LONDON, 6th FLOOR COMMONWEALTH  
BUILDING, DU CANE ROAD, LONDON.



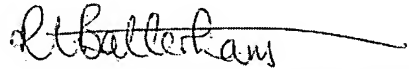
Title: "Modification of Feeding Behavior Using PYY and GLP-1"

By: Michael Cowley, Roger Cone, Malcolm Low, Andrew Butler, Stephen Robert Bloom, Caroline Jane Small, Rachel Louise Batterham, and Mohammad Ali Ghatei

Filed: July 12, 2004

ASSIGNMENT

WITNESS my hand and seal this 7<sup>th</sup> day of June, 2005.



Rachel Louise Batterham

Witnesses:

1. Signed: Colin Selman.  
Printed Name: COLIN SELMAN.  
Address: 44 LAVERS ROAD, STOKE NEWINGTON  
LONDON. N16 0DT.
  
2. Signed: H. Heffron  
Printed Name: HELEN HEFFRON  
Address: 119A TREVELYAN ROAD  
LONDON SW17 9LP

Title: "Modification of Feeding Behavior Using PYY and GLP-1"

By: Michael Cowley, Roger Cone, Malcolm Low, Andrew Butler, Stephen Robert Bloom, Caroline Jane Small, Rachel Louise Batterham, and Mohammad Ali Ghatei

Filed: July 12, 2004

ASSIGNMENT

WITNESS my hand and seal this 27 day of MAY, 2005.



Mohammad Ali Ghatei

Witnesses:

1. Signed: [Signature]  
Printed Name: SARA YADAV  
Address: 65 WESTBOURNE TERRACE, LONDON  
W2 3UT
2. Signed: [Signature]  
Printed Name: CRYSTALLA ORPHANIDES  
Address: DEPT OF METABOLIC MEDICINE, HAMMERSMITH CAMPUS,  
IMPERIAL COLLEGE LONDON, 6TH FLOOR COMMONWEALTH  
BUILDING, DU CANE RD, LONDON.

## ASSIGNMENT

We, Michael Cowley of 6724 S. E. 19<sup>th</sup> Avenue, Portland, Oregon 97202, Roger Cone of 16563 S. Hattan Road, Oregon City, Oregon 97045, Malcolm Low of 4650 S. W. Upper Drive, Lake Oswego, Oregon 97035, Andrew Butler of 9010 Worth Avenue, Baton Rouge, LA70810, USA (formerly of 3730 S.W. 12<sup>th</sup> Avenue, Apartment 10, Portland, Oregon 97201), Stephen Robert Bloom of 49 Hollycroft Avenue, Hampstead, London NW3 7QS, United Kingdom, Caroline Jane Small of 46 Cumberland Road, London W3 6EY, United Kingdom, Rachel Louise Batterham of Flat 15 Great Sutton Street, London, EC1V 0BY, United Kingdom, and Mohammad Ali Ghatci of 17 Warrender Way, Ruislip, Middlesex, HA4 8EB, United Kingdom, in consideration of ten dollars and other valuable consideration paid to us by each of Imperial College Innovations Ltd., a corporation of the United Kingdom having its principal place of business at Sherfield Building, Imperial College, London SW7 2AZ, United Kingdom, and Oregon Health and Science University, a corporation of the State of Oregon, having its principal place of business at 3181 S.W. Sam Jackson Park Road, L335, Portland, Oregon 97201 (hereinafter "said Assignees"), the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Assignees, their successors and assigns, a joint, undivided interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in a certain invention or improvement in "*Modification of Feeding Behavior Using PYY and GLP-1*" described in U.S. Serial No. 10/501,411 filed in the United States Patent and Trademark Office on July 12, 2004, by Michael Cowley, Roger Cone, Malcolm Low, Andrew Butler, Stephen Robert Bloom, Caroline Jane Small, Rachel Louise Batterham, and Mohammad Ali Ghatci, which is a filing under 35 U.S.C. § 371 of PCT Application No. PCT/GB03/00062 filed under the Patent Cooperation Treaty on January 10, 2003, and in the provisional application to which priority is claimed, being U.S. Provisional Application Serial No. 60/392,109 filed in the United States Patent and Trademark Office on June 28, 2002, and in the PCT application to which priority is claimed, being PCT Application Serial No. PCT/US02/31944 filed in the U.S. Receiving Office for the Patent Cooperation Treaty on September 24, 2002, and in the United Kingdom application to which priority is claimed, being United Kingdom Application No. GB 0200507.2 filed in the United Kingdom on January 10, 2002, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any provisional, divisional, continuation, continuation-in-part,

Title: "Modification of Feeding Behavior Using PYY and GLP-1"

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Filed: July 12, 2004

ASSIGNMENT

reissue, or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said Assignees and their successors and assigns, but at their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said Assignees, with specifications and claims in such form as shall be approved by the counsel of said Assignees; and to vest and confirm in said Assignees, their successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said Assignees, their successors and assigns.

WITNESS my hand and seal this 25<sup>TH</sup> day of May, 2005.

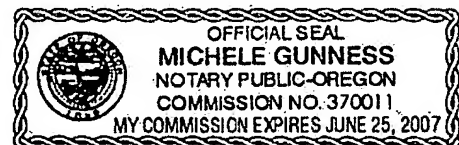
  
Michael Cowley

State of Oregon  
County of Multnomah

Then personally appeared the above named Michael Cowley and acknowledged the foregoing instrument to be his free act and deed, before me this 25<sup>TH</sup> day of May, 2005.

  
Notary Public

My Commission expires: June 25, 2007



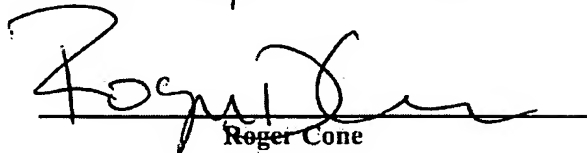
Title: "Modification of Feeding Behavior Using PYY and GLP-1"

By: Michael Cowley, Roger Cone, Malcolm Low, Andrew Butler, Stephen Robert Bloom, Caroline Jane Small, Rachel Louise Butterham, and Mohammad Ali Ghatel

Filed: July 12, 2004

ASSIGNMENT

WITNESS my hand and seal this 17<sup>th</sup> day of May, 2005.

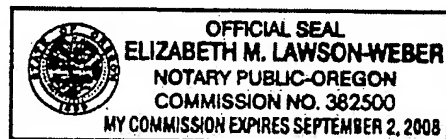
  
Roger Cone

State of Oregon  
County of Multnomah

Then personally appeared the above named Roger Cone and acknowledged the foregoing instrument to be his free act and deed, before me this 17<sup>th</sup> day of May, 2005.

  
Notary Public

My Commission expires: Sept. 2, 2008



Title: "Modification of Feeding Behavior Using PYY and GLP-1"

By: Michael Cowley, Roger Cone, Malcolm Low, Andrew Butler, Stephen Robert Bloom, Caroline Jane Small, Rachel Louise Batterham, and Mohammad Ali Ghatel

Filed: July 12, 2004

ASSIGNMENT

WITNESS my hand and seal this 17 day of May, 2005.

Malcolm Low

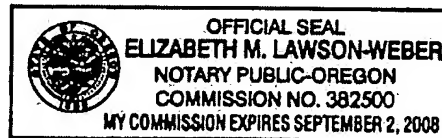
Malcolm Low

State of Oregon  
County of Multnomah

Then personally appeared the above named Malcolm Low and acknowledged the foregoing instrument to be his free act and deed, before me this 17<sup>th</sup> day of May, 2005.

Elizabeth M. Lawson-Weber  
Notary Public

My Commission expires: September 2, 2008



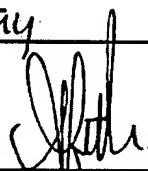
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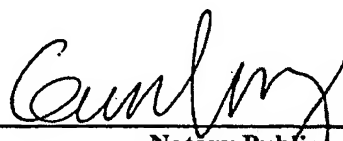
ASSIGNMENT

WITNESS my hand and seal this 16<sup>th</sup> day of May, 2005.

  
\_\_\_\_\_  
Andrew Butler

State of Louisiana  
Parish of East Baton Rouge  
County of East Baton Rouge

Then personally appeared the above named Andrew Butler and acknowledged the foregoing instrument to be his free act and deed, before me this 16<sup>th</sup> day of May, 2005.

  
\_\_\_\_\_  
Notary Public

My Commission expires: at Death

Guy J. LaVerigne ID#9704

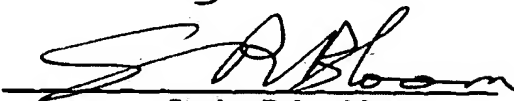
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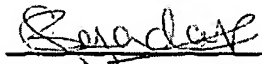

Filed: July 12, 2004

ASSIGNMENT

WITNESS my hand and seal this 22<sup>nd</sup> day of May, 2005.

  
Stephen Robert Bloom


Witnesses:

1. Signed:   
Printed Name: SARA YADAV  
Address: 65 WESTBORNE TERRACE, LONDON  
N2 3UY
2. Signed:   
Printed Name: R. L. Chardon - N. H.  
Address: 1, Rachel Rd  
Cigston let 131


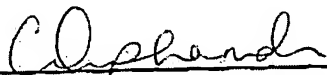


Title: "Modification of Feeding Behavior Using PYY and GLP-1"  
By: Michael Cowley, Roger Cone, Malcolm Low, Andrew Butler, Stephen Robert Bloom, Caroline Jane Small, Rachel Louise Batterham, and Mohammad Ali Ghatei  
Filed: July 12, 2004  
ASSIGNMENT

WITNESS my hand and seal this 27 day of May, 2005.

  
Caroline Jane Small

Witnesses:

1. Signed:   
Printed Name: SARA YADAV  
Address: 65 WESTBOURNE TERRACE, LONDON,  
W12 30Y
2. Signed:   
Printed Name: CHRYSALLA ORPHANIDES  
Address: DEPT OF METABOLIC MEDICINE, HAMMERSMITH CAMPUS  
IMPERIAL COLLEGE LONDON, 6<sup>TH</sup> FLOOR COMMONWEALTH  
BUILDING, DU CANE ROAD, LONDON.

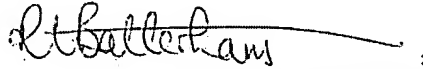
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By: Michael Cowley, Roger Cone, Malcolm Low, Andrew Butler, Stephen Robert Bloom, Caroline Jane Small, Rachel Louise Batterham, and Mohammad Ali Ghatei

Filed: July 12, 2004

ASSIGNMENT

WITNESS my hand and seal this 7<sup>th</sup> day of June, 2005.



Rachel Louise Batterham

Witnesses:

1. Signed: Colin Selman.  
Printed Name: COLIN SELMAN.  
Address: 44 LAVERS ROAD, STOKE NEWINGTON  
LONDON N16 0DT.
  
2. Signed: H. Heffron  
Printed Name: HELEN HEFFRON  
Address: 119A TREVELYAN ROAD  
LONDON SW17 9LP

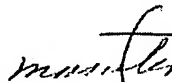
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By: Michael Cowley, Roger Cone, Malcolm Low, Andrew Butler, Stephen Robert Bloom, Caroline Jane Small, Rachel Louise Batterham, and Mohammad Ali Ghaei

Filed: July 12, 2004

ASSIGNMENT

WITNESS my hand and seal this 27 day of MAY, 2005.



Mohammad Ali Ghaei

Witnesses:

1. Signed: [Signature]  
Printed Name: SARA YADAV  
Address: 65 WESTBOURNE TERRACE, LONDON  
N2 3UY
2. Signed: [Signature]  
Printed Name: CRYSTALLA ORPHANIDES  
Address: DEPT OF METABOLIC MEDICINE, HAMMERSMITH CAMPUS,  
IMPERIAL COLLEGE LONDON, 6TH FLOOR COMMONWEALTH  
BULWING, DU CANE RD, LONDON.

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